Fire Detection/Aerial Reconnaissance Project Aviation Safety Plan							
Bridger Teton National Forest/Grand Teton National Park							
Mission: Fixed or Rotor Wing Project Name: Fire Detection/Aerial Reconnaissance Unit: BTF/GRTE						TF/GRTE	
Anticipated Project Date: 2016							
Project Plan Prepared by: David A						Date: 03/16/2016	
		es that all ne	rsonr	nel have the required train			
				rial hazards must be indic		,31011.	
Project Plan Reviewed by:/s/Dou			-11, 410	Title: Acting RASM		Date: 03/25/2016	
Project Plan Reviewed by:/s/ Chris Vero				Title: NZ AFMO/ATGS		Date: 03/21/2016	
Project Plan Reviewed by:/s/Samuel Ramsay				Title: RAO		Date: 04/13/2016	
-							
This Flight is Approved by: /s/Jose Castro Title: Deputy Forest Supervisor Date: 04/14/20							
Project Description: Fire detection flights primarily occur in a fixed wing aircraft which are utilized to detect fire starts after periods of lightening and moderate-high fire danger and activity. A rotary wing aircraft may be used in special circumstances. The Forest/Park Fire Management and Aviation Officers are responsible for the supervision and approval of fire detection flights. These missions generally occur during the months of May through October and specific routes are chosen with consideration of lightening detection maps and FMO requests. The flight path will be determined by the flight manager in coordination with the aircraft pilot. Only agency approved aircraft and pilots will be used. A fixed wing flight manager or ATGS will supervise these flights and the aircraft will be accompanied at a minimum by an Aerial Observer (AOBS). In the event a helicopter is used for Fire Detection, a helicopter manager will be assigned to the aircraft. If the helicopter must land at a remote location and the manager not be onboard the pilot will be responsible for the offloading of the passenger(s) and the subsequent preflight briefing and onboarding of passenger(s). Aircraft will be ordered through Teton Interagency Dispatch Center. If at any time flights are performed below 500' AGL with the exception of takeoff and landing, ALSE and special use mission requirements will apply.							
Attachments: Map - Unit and aerial hazard maps will be shared with the pilot prior to flight.							
Project Supervisor: TBD from Fire Management				Phone:	Cell:		
Flight Manger: Fixed Wing flight Manager, Air Attack, or Helicopt				Phone:	Cell:		
Manager Manager							
Participants:							
Type of Flight: Mission Flight		Desired Airc	raft T	ype: Fixed or rotor wing	Charge C	ode:	
Type Procurement: Exclusive Use or CWN Method of Pa				yment: FS 122 or OAS 23 Projected Cost:			
Vendor: TBD			Ph	one:	Cell:		
Aircraft N#: Make	e & Model:		Ai	rcraft Color:			
Pilot Name:		ot Carded: Yes No	A/C Card	ed: Yes No			
Flight Follow: AFF and/or 15 minute radio checks Request or Flight #: Method of Resource Tracking: □ Phone ☒ Radio ☒ Prior to Takeoff ☒ Each Stop Enroute ☒ Arrival at Dest.							
Method of Resource Tracking:					top Enroute 🗵	Arrival at Dest.	
Scheduling Dispatch Phone: 307-7				stination Dispatch Phone:			
FM Receive: Forest/Park Net	FM Transmit:			nes: Forest/Park Net			
FM Receive:	FM Transmit: FM Transmit:			nes:			
FM Receive: AM Air to Air: Available A/A	AM Unicom:		_	nes: her: Available Unit A/A fre	guency		
ANTAIL TO AII. AVAIIAUIC A/A	7111 TO THE TY AND COUNTY IN CHAOMS OTHER AVAILABLE CHILD AVAI						
Soarch and Daggue Pr	naaduraa Cart	oot Dianat	oh T	Collow the Avieties M	ichon Doors	maa Cuida	

4/14/2016

4/14/2010												
Start Loca	tion	L	atitude	Longitude	Elevation	Runway length & Surface or		ace or Helispot Size				
TBD	4:	т	- 4.4 1 -	T 14 4 -	Elasatia a	D 1	1 41 0 0 0 11 1					
Destination L TBD	ocation	L	atitude	Longitude	Elevation	n Runway length & Surfa		ace of Helispot Size				
TDD												
Passen	ger Name		V	Veight	Departure Point		Destination Point					
TBD					•							
Cargo	Cargo Weight		Cu	bic Feet	Hazardous M	[aterial	Destination					
					Yes	□No						
					Yes	□No						
					Yes	□No						
Type of Fligh	ht			 the type aircraft and 								
M	., .			Nomex clothing, hardhat w/chin strap, gloves, leather boots, eye protection, hearing								
Air Ops gene				protection, fire extinguisher								
				Hearing protection Nomex clothing, gloves, leather boots, hearing protection								
Rotor Wing f				Flight helmet, Nomex clothing, gloves, leather boots, eye protection, hearing protection,								
	8			approved secondary restraint harness for doors off flights, PFD for all PAX as required								
_	as determine	ed that	these flights	are the best method opment in order to de								
Special Instructions: A briefing of the unit aerial hazard map will occur prior to project implementation. Known temporary fli restrictions and MTR IR-499 will also be mitigated.							emporary flight					
	anager will e	ensure tl	hat weight and	balance and/or load c	alculations are co	ompleted. Lo	ad must be	within limitations				
				rior to the flight that a	affected routes'	Schedulers	contacted f	or Route Activity				
Military Traini	ng Koute (1	1		m:	m: z				
MTR	Regins SE of		oute Legs-Altitu WV and ends	near Palisades Lake,	Activity ☐ Hot ☐ Cold	Start	Time Stop	Time Zone				
I	D. Altitude	of the	route is from 1	00 feet AGL to either side of			F					
			operation are									
				utt AFB. Originating								
I	Dakota (phor			orce Base, South (on call # 605-431-								
	3025).				 	G: ·						

□Hot □Cold

Start

Stop

□UTC□PST

Job Risk Analysis: Aircraft manager/pilot will review prior to implementation to ensure adequate planning and resource commitment.

Is everything approved with clear		Yes		No	☐ NA		
Are communications and flight following established, including repeater tones?					No	☐ NA	
Can terrain, altitude, temperature		Yes		No	☐ NA		
Are all aerial hazards identified an		Yes		No	☐ NA		
Have mitigating measures been ta		Yes		No	☐ NA		
Have adequate landing areas been		Yes		No	☐ NA		
Are all agency personnel qualified		Yes		No	□ NA		
Is the pilot carded and experienced		Yes		No	□ NA		
Are there enough agency personn	el to accomplish the mission safely?		Yes		No	□ NA	
Will adequate briefings be conducted	cted prior to flight to include Pilot, Passengers and Dispatch?		Yes		No	□ NA	
_	ot has the final authority, but if any passenger feels		Yes		No	□ NA	
uncomfortable, that they can decli	ne the flight without fear of reprisal?						
	ng the mission with a margin of safety?		Yes		No	□ NA	
Have manifests of cargo and pass	engers, load calculations and/or weight & balance completed?		Yes		No	☐ NA	
Is the aircraft properly carded?			Yes		No	□ NA	
Do all personnel have the required	1 PPE?		Yes		No	□ NA	
Fuel planning, adequate fuel on bo	oard, fuel truck location, availability of commercial fuel?		Yes		No	☐ NA	
Remember; maps of areas/sites, h	andheld radios, cell phones, day/survival packs, sic sacks		Yes		No	□ NA	
Will the mission be conducted at 1	low levels? (Below 500' AGL)		Yes		No	☐ NA	
Can the same objective be achieved	ed by flying above 500' AGL?		Yes		No	☐ NA	
Are pilot flight and duty times cor	•		Yes		No	□ NA	
Is there an alternative method that	twould accomplish the mission more safely?		Yes		No	☐ NA	
Helicopter Mgr. Signature:	Date: Pilot Signature:				Dat	te:	
Job Hazard Analysis: Airc	craft manager/pilot <mark>will review applicable elements w</mark>	vith a	all pa	rtici	pants	as	
part of preflight briefing.							
Hazard	Hazard Mitigation						
	Practice risk management. Check routes in advance, confirm that			as ma	ide cal	lls	
Hazard MTR's Private aircraft	Practice risk management. Check routes in advance, confirm that See and avoid. Transmit in the blind on 122.925 near backcounts.	ry airs		as ma	ide cal	lls	
Hazard MTR's Private aircraft Airport traffic	Practice risk management. Check routes in advance, confirm that See and avoid. Transmit in the blind on 122.925 near backcount. Stay in radio contact. Announce intentions, use established patterns.	ry airs erns	trips				
Hazard MTR's Private aircraft	Practice risk management. Check routes in advance, confirm that See and avoid. Transmit in the blind on 122.925 near backcounts.	ry airs erns	trips				
Hazard MTR's Private aircraft Airport traffic Weather Terrain	Practice risk management. Check routes in advance, confirm that See and avoid. Transmit in the blind on 122.925 near backcounts. Stay in radio contact. Announce intentions, use established patter Use weather advisory. Maintain VFR minimums. Cancel mission Avoid performance related situations, cross terrain at it's lowest patterns.	ry airs erns n if co	trips ondition	ns de	teriora	te	
Hazard MTR's Private aircraft Airport traffic Weather Terrain Low level obstacles	Practice risk management. Check routes in advance, confirm that See and avoid. Transmit in the blind on 122.925 near backcounts. Stay in radio contact. Announce intentions, use established patter Use weather advisory. Maintain VFR minimums. Cancel mission Avoid performance related situations, cross terrain at it's lowest proposed to the complete a high level recon, no unnecessary low level flight	ry airs erns n if co	trips ondition	ns de	teriora	te	
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Hazard MTR's Private aircraft Airport traffic Weather Terrain Low level obstacles Unimproved landings Doors off helicopter operations	Practice risk management. Check routes in advance, confirm that See and avoid. Transmit in the blind on 122.925 near backcounts. Stay in radio contact. Announce intentions, use established patter Use weather advisory. Maintain VFR minimums. Cancel mission Avoid performance related situations, cross terrain at it's lowest proposed to the complete a high level recon, no unnecessary low level flight	ry airs erns n if co point,	trips ondition consid	ns de	teriora	te	
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Hazard MTR's Private aircraft Airport traffic Weather Terrain Low level obstacles Unimproved landings Doors off helicopter operations	Practice risk management. Check routes in advance, confirm that See and avoid. Transmit in the blind on 122.925 near backcountry. Stay in radio contact. Announce intentions, use established patter Use weather advisory. Maintain VFR minimums. Cancel mission Avoid performance related situations, cross terrain at it's lowest processes and the complete a high level recon, no unnecessary low level flight. Recon LZ. Download on first load. Stay in radio contact. Use approved secondary restraint harness. Remove loose items from the contact of the	ry airs erns n if co point,	trips ondition considerabin	ns de	teriora	te	
Hazard MTR's Private aircraft Airport traffic Weather Terrain Low level obstacles Unimproved landings Doors off helicopter operations Pilot not familiar with area	Practice risk management. Check routes in advance, confirm that See and avoid. Transmit in the blind on 122.925 near backcountry. Stay in radio contact. Announce intentions, use established patter Use weather advisory. Maintain VFR minimums. Cancel mission Avoid performance related situations, cross terrain at it's lowest processed in the complete a high level recon, no unnecessary low level flight. Recon LZ. Download on first load. Stay in radio contact. Use approved secondary restraint harness. Remove loose items for Supply hazard maps. Complete high level recon prior to low level.	erns erns point,	trips ondition considerabin	ns de ler do	teriora owndra	ite afts	
Hazard MTR's Private aircraft Airport traffic Weather Terrain Low level obstacles Unimproved landings Doors off helicopter operations Pilot not familiar with area Noise, rotor wash	Practice risk management. Check routes in advance, confirm that See and avoid. Transmit in the blind on 122.925 near backcountry. Stay in radio contact. Announce intentions, use established patter Use weather advisory. Maintain VFR minimums. Cancel mission Avoid performance related situations, cross terrain at it's lowest processed a high level recon, no unnecessary low level flight. Recon LZ. Download on first load. Stay in radio contact. Use approved secondary restraint harness. Remove loose items for Supply hazard maps. Complete high level recon prior to low level. Wear ear and eye protection, utilize dust abatement.	ry airs erns n if co point, com ca l worl	ondition considerabin	ns de ler do	teriora owndra	te hfts	
Hazard MTR's Private aircraft Airport traffic Weather Terrain Low level obstacles Unimproved landings Doors off helicopter operations Pilot not familiar with area Noise, rotor wash Internal and external loads	Practice risk management. Check routes in advance, confirm that See and avoid. Transmit in the blind on 122.925 near backcountry. Stay in radio contact. Announce intentions, use established patter Use weather advisory. Maintain VFR minimums. Cancel mission Avoid performance related situations, cross terrain at it's lowest proceed to a high level recon, no unnecessary low level flight. Recon LZ. Download on first load. Stay in radio contact. Use approved secondary restraint harness. Remove loose items for Supply hazard maps. Complete high level recon prior to low level. Wear ear and eye protection, utilize dust abatement. Have trained personnel assigned to the mission, plan around fuel,	ry airs erns n if co point, rom ca l worl	trips ondition conside abin k k and e ures, m	ns de ler do	teriora	te hfts	
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Hazard MTR's Private aircraft Airport traffic Weather Terrain Low level obstacles Unimproved landings Doors off helicopter operations Pilot not familiar with area Noise, rotor wash Internal and external loads Unplanned aircraft events Hazardous materials Non aviation personnel Communications	Practice risk management. Check routes in advance, confirm that See and avoid. Transmit in the blind on 122.925 near backcounts. Stay in radio contact. Announce intentions, use established patter Use weather advisory. Maintain VFR minimums. Cancel mission Avoid performance related situations, cross terrain at it's lowest proceed a high level recon, no unnecessary low level flight. Recon LZ. Download on first load. Stay in radio contact. Use approved secondary restraint harness. Remove loose items for Supply hazard maps. Complete high level recon prior to low leve. Wear ear and eye protection, utilize dust abatement. Have trained personnel assigned to the mission, plan around fuel, All personnel equipped with required PPE and trained in crash proceed Trained personnel will handle, inform pilot, utilize Hazmat guide. Maintain control, provide through briefings. Maintain communications at all times, establish backup options, at Take handheld radio along. Call in prior to landing. If radio con unable to re-establish, return to best suitable landing area and checked.	ry airs erns n if co point, com ca l worl Hool cocedu e w/cu and ki tact is	ondition considerabin k k and e ures, m rrent e	ns de der do	ment con flightion	hecks nt follow uencies.	
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Hazard MTR's Private aircraft Airport traffic Weather Terrain Low level obstacles Unimproved landings Doors off helicopter operations Pilot not familiar with area Noise, rotor wash Internal and external loads Unplanned aircraft events Hazardous materials Non aviation personnel Communications Overload conditions/CG issues Wintertime operations Prop/Rotor hazards Multiple project aircraft	Practice risk management. Check routes in advance, confirm that See and avoid. Transmit in the blind on 122.925 near backcounts. Stay in radio contact. Announce intentions, use established patter. Use weather advisory. Maintain VFR minimums. Cancel mission. Avoid performance related situations, cross terrain at it's lowest proceed a high level recon, no unnecessary low level flight. Recon LZ. Download on first load. Stay in radio contact. Use approved secondary restraint harness. Remove loose items for Supply hazard maps. Complete high level recon prior to low lever. Wear ear and eye protection, utilize dust abatement. Have trained personnel assigned to the mission, plan around fuel, all personnel equipped with required PPE and trained in crash proceed Trained personnel will handle, inform pilot, utilize Hazmat guide. Maintain control, provide through briefings. Maintain communications at all times, establish backup options, at Take handheld radio along. Call in prior to landing. If radio control unable to re-establish, return to best suitable landing area and check Complete accurate load calculations and/or Weight and Balance. Use appropriate clothing for varying altitudes/climatic conditions. Pilot perform aircraft safety brief, Approach/Depart sensibly after. Adequate aerial supervision. Carded managers for each aircraft. separation, utilize common frequencies communications.	ry airs ry airs rom ca rom ca l worl Hool rocedu e w/cu and kr tact is eck in s, utiliz r shut Estab	consideration co	ns de der do	ment con flightion te frequency check	hecks nt follow uencies. c tones, if	
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Chart 3-2: Risk Assessment			HAZARD PROBABILITY						
NA - 4 min -			Frequent	Likely	Occasional	Seldom	Unlikely		
Matrix			A	В	С	D	E		
	Catastrophic	I	Extremely				Medium		
	Critical	II	High		High	Medium			
EFFECT	Moderate	III	High	Medium					
	Negligible	IV	Medium			Low			

RISK ASSESSMENT WORKSHEET

Assess the risks involved with the proposed operation. Use additional sheets if necessary.

Assignment: Date: 03/16/2016	Probability	Effect	Risk
	(A-E)	(I-IV)	Level
Describe Hazard:	G	***	***
1. Lack of mission clarity, command, roles and responsibilities.	С	II	High
2. Weather: poor visibility, high winds, low clouds, thunderstorms	A	II	Ext. High
3. Mountain Flying: turbulence, terrain, density altitude	A	I	Ext. High
4. Airspace: general aviation, military training routes, mid-air collision	С	I	High
5. Low level flight profile below 500 AGL: low altitude obstructions	D	II	Medium
6. Pilot fatigue, duty limitations exceeded	D	II	Medium
7. Inadequate flight supervision	D	II	Medium
Mitigation Controls:	Probability	Effect	Risk
	(A-E)	(I-IV)	Level
1. Brief all participants on the mission and the associated hazards and	D	II	Medium
mitigations.			
2. Maintain VFR, continuously monitor conditions, abort mission until more favorable condition, have alternate landing locations	D	II	Medium
3. Obtain weather briefings, maintain awareness of terrain, complete weight/balance and/or load calculations, abort mission due to weather and high temperatures	D	II	Medium
4. See and avoid, contact TIDC for MTR activity, check Temporary Flight Restrictions	D	II	Medium
5. Review aerial hazard map and maintain awareness of terrain and obstacles	Е	II	Low
5. Pilot and flight manager must ensure that duty hours do not exceed imitations and that flight hours are limited to 8 hours per day.	Е	II	Low
7. Fire management will ensure a qualified flight manager is assigned to each fire detection mission.	Е	II	Low
FINAL RISK EFFECT: LOW MEDIUM HIGH	(Shac	de/highlight (ONE)

Operation Approved by: /s/ Jose Castro Title: Deputy Forest Supervisor Date: 04/14/2016

PROJECT AVIATION SAFETY PLAN BRIEFING

Project Aviation Safety Plan Briefing and applicable elements found in the JHA will be discussed with all participants prior to start of operations.

A copy of this briefing page will be submitted to the Forest Aviation Officer within 5 days of the completion of this project.

Briefing Leader:	
Briefing Date: Time:	Location:
Discussion Items: a. Hazard Analysis (as outlined in plan)	
b. Safety Air Ops (Ground)	
c. Safety Air Ops (Flight)	
d. Military Training Routes	
e. Flight Following	
f. Frequencies	
g. Fueling	
h. Emergency Evacuation. Plan	
i. Authorities	
j. Weather Considerations	
k. Other	
L. other	

Attendees Signature and Concurrence: